

PLANNING • ENGINEERING • MANAGEMENT

ASBESTOS ABATEMENT REPORT

(UNDERGROUND TRANSITE PIPES)

PREPARED FOR:

MR. JOHNNY MARASCO

BOEING REALTY CORPORATION

PREPARED BY:

MICHAEL REZVANI, REA, CAC PRINCIPAL CONSULTANT



JUNE 30, 1999

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June 30, 1999 ES99-040.Rpt

Mr. Johnny Marasco
Boeing Realty Corporation
4060 Lakewood Blvd.
6th Floor
Long Beach, California

Class II Asbestos Abatement Monitoring Report
Underground Transite Conduit & Pipes
Boeing
19901 Normandie Avenue
Los Angeles, California

Introduction: Approximately 500 feet of 4" diameter asbestos electrical conduit lines encased in concrete and approximately 200 feet of asbestos water line were uncovered from underground and placed in an assigned area of the subject site by Boeing for proper handling and disposal. This report presents the results of our observations and air monitoring of the subsequent class II asbestos abatement performed by Tri-State Restoration, Inc. The abatement was started on June 24 and completed on June 30, 1999.

Project Summary: Tri-State Restoration was retained by Boeing Realty Corporation to perform the class II abatement. The abatement was performed in accordance with the approved specification prepared by Environmental Solutions (see exhibit I).

All transite pipes and conduit were cut in transportable sections and placed in an area called the regulated work area (RWA). This area was taped out with caution tapes and was measured to be approximately 3,300 square feet. The sections were carefully separated from the surrounding concrete encasement, first, by the use of a large jack-hammer and then manually by asbestos abatement workers using hammer and chisel. The process of abatement included three different phases. 1) to perform a rush sweep of the RWA in order to collect large pieces, 2) to separate and collect all pieces of pipe attached to the concrete encasement, and 3) to perform two final clearance sweeps of the RWA from east to west in order to find and collect much smaller pieces of transite.

Environmental Solutions monitored the abatement activities on daily basis. Air samples were collected using low-flow air pumps and the northeast and the northwest corners. The air samples were analyzed daily by phase contrast microscopy (PCM) using NIOSH 7400 method for detection of asbestos fibers in the filters. The air sampling documentation is presented in exhibit III of this report.

Final visual clearance was performed at the completion of the final sweep. The RWA was found to be free of any visible pieces of transite debris. No assessment of the soil conditions was made or

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Boeing Realty Corporation Asbestos Abatement Report Page 2

deemed warranted for this project. All transite materials were bagged and sealed and placed in an approved bin for transport to an approved land-filled by BDC transport.

Conclusion: Tri-State workers were protected by tyvek suits, half-face respirators and hard hats for the duration of this project. We believe that the abatement activities were performed in accordance with 29 CFR 1926.1101 for handling and disposal of non-friable asbestos materials (class II).

The following exhibits are included and complete this report.

0	Exhibit I	Abatement Specification
0	Exhibit II	Field Reports
0	Exhibit III	Air Sample Documentation

Environmental Solutions

Michael Rezvani, REA, CAC Principal



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EXHIBIT I ABATEMENT SPECIFICATION





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CLASS II ASBESTOS ABATEMENT SPECIFICATION

BOEING

(UNDERGROUND TANSITE PIPES)

Prepared For:

BOEING REALTY CORPORATION

BY:

MICHAEL REZVANI, REA, CAC
PRINCIPAL

SBESTOS CONSTITUTOR No. 1225C

Expires: 10/99

OF CALIFORNIE

JUNE 22, 1999

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1.0 SCOPE OF WORK

1.1 General

- 1.1.1. The work under this section shall include initial area restriction, area preparation, removal of non-friable asbestos containing materials (ACM), final cleanup, and disposal of asbestos-containing materials (transite pipes). This work shall also include any materials contaminated by appreciable amounts (greater than 1%) of asbestos.
- 1.1.2. Any material encountered during the work procedure for which there is a question as to its asbestos content may simply be removed as suspect asbestos material or can be tested.
- 1.1.3. Tri-State Restoration is responsible for and shall furnish all labor, material, equipment, service, and incidentals necessary for the performance of the work in accordance with scope of work herein.

1.2. Specific

- 1.2.1. Tri-state shall restrict and contain the regulated work areas as designated and discussed during the pre-abatement job-walk to conduct class II ACM removal. The regulated work area (RWA) shall consist of physical marking barriers to restrict entry and exit and one decontamination unit (decon).
- 1.2.2. The decon shall be at the point of entry to RWA. A shower (optional) may be used, for decontamination purposes in the middle air lock.
- 1.2.3. Tri-State shall maintain a HEPA vacuum to decontaminate the adjacent areas having potential for cross-contamination. These areas may become a part of RWA should debris migrate.
- 1.2.4. Tri-State shall remove the broken pieces of transite pipes from the dirt using approved wet methods as prescribed by 29 CFR 1926.1101 for class II abatement. The workers will then separate the transite pipes from the concrete encasement and place each transite piece inside of an asbestos bag/or any approved sealed container for final disposal.
- Note: The process of breaking the concrete encasement can only be performed efficiently by a large jack-hammer which has the potential to break and disturb the transite pipes. This process of breaking the concrete casing to uncover/separate the transite pipe must be performed by a trained worker who is also protected by respirator and tyvek suit.
- 1.2.5. Tri-State shall use half-face respiratory protection as minimum for removal, transport and disposal process.
- 1.2.6. Tri-State shall perform personnel air sampling on at least one of the workers for the duration of each work-shift. Tri-State should also keep an activity log for record. The consultant is responsible for visual monitoring and/or area air sampling.
- 1.2.7. Tri-State shall be responsible for the safety of its crew and conducting safety meeting prior to the start of work. All workers must have submittals on site for review by Boeing or its consultant.



2.0 GENERAL REQUIREMENTS

This section sets forth all General Requirements covering the scope of work. Tri-State must adhere to these provisions prior to, during, and after any asbestos work activities on the subject site.

2.1. Performance Schedule and Sequence of Work

Tri-State shall commence performance of the Work at jobsite within ten (10) calendar days after receiving Notice to Proceed from Boeing Realty Corporation.

2.2. Reporting Requirements

Tri-State shall promptly submit any schedules, change of schedules and reports to Boeing Realty Corporation and the consultant.

2.3. Applicable Regulations, Codes, and Standards

- 2.3.1. Tri-State shall acknowledge that he is aware of and will maintain compliance with all regulations, codes, standards, and ordinances governing the performance of this work. Furthermore, Tri-State shall be responsible for any failure with applicable documents.
- 2.3.2. Applicable documents include but are not limited to the following:
- A Title 29, Code of Federal Regulations, Part 1910, Sections 1910.134, 1910.1001, and Part 1926.1101. Occupational Safety and Health Administration (OSHA), U.S. Department of Labor.
- B Title 40, Code of Federal Regulations, Part 61, National Emission Standards for Hazardous Air Pollutants. U.S. Environmental Protection Agency (U.S. EPA).
- C Title 49, Code of Federal Regulations, Part 172, U.S. Department of Transportation.
- D ANSI 86.1-1973 Commodity Specification for Air.
- E California Administrative Code, Title 8, 22, and 26 and Regulation 11 Hazardous Pollutants, Rule 2 Asbestos and the Health and Safety Code.
- F All Federal, State, County, and City regulations, codes, and ordinances as applicable.
- 2.3.3. The most current issue of each document shall apply. Where conflict among requirements or with these specifications exits, the more stringent requirement or interpretation shall apply.
- 2.3.4. The Contractor will provide at least one copy of any EPA, OSHA, State, or City regulations, code, or ordinance at the site available for review.



2.4. Notices and Submittals

Prior to commencement of this asbestos related work, Tri-State shall submit the following items:

- 2.4.1. Written Notice of Proposed activity to the applicable air pollution control agency(ies), not fewer than ten (10) days before beginning of work.
- 2.4.2. Written Notice of Proposed activity to the OSHA Regional Office or any other agency having jurisdiction.
- 2.4.3. Written proof that all required permits, licenses, and registrations have been applied for and/or received. This shall include Tri-State's Licenses and Asbestos Workers' Registrations.
- 2.4.4. An executed Special Endorsement (Insurance) Form (if not submitted during contract phase).
- 2.4.5. A notarized certification (optional) containing:
- A. list of each employee (assigned to this project) by name and social security number
- B. Indication that each person listed has received instructions on the hazards of asbestos exposure, on the proper use and fitting of respirators, on protective clothing, on the use of decontamination systems (including the proper entry and exit procedures), and on all work procedures and requirements, and that the employees understand these instructions.
- 2.4.6. Executed certificates of Worker's Release Forms (if applicable).
- 2.4.7. Proof of employee medical exams as required by OSHA regulations.
- 2.4.8. A notarized (optional) certification of:
- A selected approved landfill site locations,
- B transport procedures (Sec. 49 CFR Part 172), and
- C use of proper disposal methods.
- Note: This may be waived until after cleanup and landfill receipts can be attached or affixed.
- 2.4.9. Display telephone numbers and locations of emergency services including but not limited to fire, ambulance, doctor, hospital, police, power company, and telephone company.

2.5. Warning Signs and Labels

2.5.1. Tri-State shall adhere to all warnings, labels, and the posting of such notices specified herein or required by Federal, State, or local agencies.



3.0 SAFETY

3.1. General

Tri-State shall be solely responsible for the safety, efficiency, and adequacy of his equipment, and methods, and for any damages which may result from their improper construction, maintenance, or operations. Tri-State shall erect and properly maintain at all times, as required by the condition and progress of the work, proper safeguards for the protection of the workers and shall post warning signs around the regulated work areas.

- 3.1.1. Tri-State shall designate a competent person of his organization on the work site, whose duty shall be the detection, recognition, and prevention of accidents and potential accidents. This person shall be the supervisor.
- 3.1.2. Tri-State shall assume all responsibility for any toxic effects to workers of the air supplied to respirators. He shall also assume all responsibility for any toxic effects to personnel or property caused by airborne particulates, mists, vapors, or any wetting agent(s) and for the disposal of said agent(s) and any residual toxic damaging residues.

3.2. Work Environment

The asbestos abatement work environment is extreme. Tri-State shall be aware of the ever present dangers and shall take the appropriate preventive measures to protect the workers from extreme environments (hot, cold, humid, wet) as well as from exposure to asbestos fibers.

3.3. Heavy Equipment

Tri-State shall adhere to all applicable OSHA regulations and standards with regards to heavy equipment and proper use and maintenance. He shall also follow proper decontamination procedures when removing said equipment from the regulated work areas.



4.0 CLEARANCE STANDARDS

4.1. Final Visual Clearance

- 4.1.1. Prior to requesting final visual clearance, Tri-State shall perform an inspection of the regulated work areas. Upon visual clearance the work area may be encapsulated to reduce the possibility of migration of any remaining airborne asbestos fibers.
- 4.1.2. Upon request by Tri-State, Environmental Solutions will conduct a final visual clearance inspection.
- 4.1.3. In the event that Tri-state fails (due to negligence) to meet the prescribed clearance criteria on the first attempt, any additional time for inspection to achieve visual clearance may be back-charged.

4.2. Final Inspection

The subject regulated work area shall be restored to its pre-asbestos abatement condition.

- 4.2.1. After thorough cleaning, begin restoration and tear-down of all barricades or barriers.
- 4.2.2. If other work is to be done as part of extended demolition, it can commence at this time.

4.3. Disposal of Contaminated Material, Wastes, and Objects

- 4.3.1. All shipping will be in accordance with Title 49, Code of Federal Regulation, Part 172.
- 4.3.2. <u>All</u> non-friable asbestos waste must be shipped using the information on shipping papers and manifests.
- 4.3.3. All wastes shall be disposed of in a permitted, authorized, predetermined landfill.
- 4.3.4. All containers shall be properly marked and meet all applicable regulations, codes, or ordinances.
- 4.3.5. All truck dumping containers shall be enclosed and sealed en route to the landfill.

Note: Tri-State shall provide receipts from landfill for material deposited.

4.3.6. All respiratory requirements specified herein shall be complied with.

EXHIBIT II FIELD REPORTS





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FIELD REPORT

Job No.: 2599 - 040	Project Name ASBESTOS PIPE ABATEMENT
Shift Start Date 6/24/99	Project Location: 19901 NORMANDIE AVE.
Contractor: TEI-STATE	Weather Condition: ctear & Breezy
DESCRIPTION:	
* 9:10 AM ENVIRO . SOWTIONS ON .	-SITE.
WE MEET W/ JOHNHY MARASCO	
* 9: 20 AM/ ES CAURPATES TEL-ST	DIES PERSONAL PUMP.
@ THIS TIME TENSTATE HAS ONE SUF	ERVUOR & THREE ABATEMENT WORKERS.
OUR OBSERVATIONS INDICATE THAT SOME	ONE PARTY HAS POURED CONCRETE
OVER THE TRANSTE PIPES ON-SITE.	THIS SHOU MAKE THE CLEAN-UP
PROCESS A LITTLE MORE DIFFIGULT 'S	· · · · · · · · · · · · · · · · · · ·
* 9:35 AM/ TRI-STATE WORKERS ARE	
E ARE ABOUT TO START WORK. E	MURD. SOLUTIONS ALSO STARTS TWO
AIR SAMPLES USING LOW-FLOW AIR	Pumps
THE ARE SOME PIRT TRUCK TRAF	FIC IN THE NEAR-BY AREA. THE WIND
DIRECTION IS NOT CONSTANT.	
TRI-STATE WORKERS ARE PLKING U	P TRANSITE PIPE PIECES & PLACING THEM
IN PLASTIC BAGS. ONE BACK-HOE	S BREAKING THE LARGE CONCRETE
CASINGS SOTHAT TRI-STATE WORKE	RS CAN ACCESS THE TRANSITE PIPE.
THE BACK-HOE JACK HAMMER OPER	STOR IS EQUIPPED WA RESPIRATOR.
_	MED WORK AREA (PWA) EVERY 1/2 HOUR.
TRI STATE IS COLLECTING ONE PERS	WAL AIR SAMPLE.
* 10:45 AM WORK CONTINUES AS DESC	PRED ABOVE.
* 11:00 AM ALL SAMPLES BY ENVIR	O. SOUT. ARE DISMANTLED FOR ANALYSIS.
, ·	
FIELD TECHNICIAN (Print Name)	SIGNATURE/DATE



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FIELD REPORT

Job No.: <u>e399-040</u>	Project Name ASRESTOS PIPE ABATEMENT
Shift Start Date 6/25/99	Project Location: 1990! NORMANDIE AVE.
Contractor: PI-STATE	Weather Condition: CLEAR & BLEEZY
DESCRIPTION:	
* 9:00 AM/ ENVIRO. SOLUTIONS ON-	SITE. TRI-STATE W/ FOUR MEN ON-SITE.
CUPPENTLY THE PROJECT STATUS	
& TEL-STATE WOLFER WALL MENTIONS	ED PROTECTIVE EQUIPMENT CONTINUE WAN
EAST TO WESTERLY DIRECTION SHEEP	OF TRANSITE PIPE PIECES PICKUP. & ON THE
WEST END THE JACK HAMMER CONTINUE	S TO BREAK APART THE PIPE'S CON CRETE
ZMCASEMENTS. THE WIND IS BLOWING	FROM SOUTH WEST.
* 9:10 AM/ ENVIRO. SOLUT. STARTS AIR SA	MPLING @ ADj. TO DOWNSTEEPIN WINDS.
* 10:30 Am/ THE THREE MAN CREW C	CONTINUE TO SUEE? WESTWARD.
MEET W JOHNHY MARAGO ABOUT	PROJECTS PROGRESS. THE CONCRETE THAT
HAS MADE FURTHER TRANSITE PIECE PI	DENED IN MOST THICKENED SECTIONS & IT
* 10145 AM/ THE CREW IS LOADING T	
,	ORT TO THE SIN. THE BIN HAS BEEN LINED
W/ POLY & CONTAINS ON ITS BOTTOM	
* 11:00 AM THE CZIW STOPS FOR W	
* 11:30 AM/ BAVIRO. SOLUT. OFF-SITE.	
THE AIR SAMPLES ARE DISMANTIED &	TAKEN OUT FOR PCM ANALYSIS.
PICID TECHNICIAN (Paint Manna)	FICH TIPE (DATE
FIELD TECHNICIAN (Print Name)	SIGNALUKE/DATE



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FIELD REPORT

	
Job No.: ES97_ 040	Project Name ASBECTOS PIPE ARCTEMENT
Shift Start Date 6/28/99	Project Location: 19901 HORMANDIE AUX.
Contractor: TEL-STATE	Weather Condition: CLERE & BREEZY
DESCRIPTION:	
* 9:00 AM/ENVIRO. SOUT. ON-SITE.	TRI-STATE W/ FOUR MEN & ONE SUP.
ON-SITE. THE STATUS OF WORK	is As Follows;
& FOUR WORKERS ARE IN THE PRO	CESS OF AN EAST TO WEST SWEED OF
THE WORK AREA. THE PROCESS	THIS SHEED INVOLVES BREAKING DWAT
THE SMALLER PLECES OF TRANSITE	THAT ARE STILL ATTACHED TO THE CONCESTE
& ALSO RETZIEVE THOSE TRANSITE	PIECES TRAPPED BENEATH THE LARGE
PLECES OF CONCEPTE.	
,	A JISUAL SWOTE POFTUE PLYA.
THE PLANA IS STILLY STAKED OUT & TAPED WE ALSO START AIR MONIT. Q	OWA ON THE MORTHERST & MORTHWEST.
* 9:45 AM THE SAME PROCESS AS DE	
/	SAMPLE. ALL POLY BAGS CONTAINING
TRANSTE PIECES HAVE BEEN & ARE	BEING TRANSPORTED & PLACED INSIDE OF
A OPEN-TOP BIN ABOUT 50 AWAY F	Rom PLWA VIA WHEEL BARREL.
* 10:45 Am/ ENVIRO. SOLUTIONS DISMANTE	ET THE AIR SAMPLES. FOR ANALYSIS.
* 11:10 Am/ FNVIRD. SAUTTOAS OFF-S	· ·
	7. Michael Lawrence
FIELD TECHNICIAN (Print Name)	SIGNATURE/DATE



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FIELD REPORT

Job No.: 8527-040	Project Name ASBESTES PIPE ABOTEMENT
Shift Start Date 6/29/59	Project Location: 19901 NOPMANDIE AUE
Contractor: TEL-STATE	Weather Condition: CLEAR & BREEZY
DESCRIPTION:	
* 9:05 AM/ ENVIRO. SOLUTIONS ON-	SITE. TRILITATE HAS A FIVEMAN CREW
O THE SITE . THE OBSERVATION	ods are as Following.
THE EAST TO WESTS FWAL C	JEANING SWEET CONTINUES.
ONE COLECTING ONE	PER-SONAL AIR SAMPLE.
& ETUIRO. SOLUTIONS STARTS AIR	- MONITORING.
+ WE MEET W/ JOHNNY M	ARASCO ABOUT THE PROJECT.
,	SWEET INCLUDES COLECTION AIL USIBLE
,	PIECES OF TRANSITE FROM THE TOP SOIL
/	ACCUMPLATED & PLACED INSIDE THE BIN.
* 11:10 Am/ ALL MONITORING AIR	SAMPLES ARE GATHERED FOR ANALYSIS.
* 11:30 AM ENVIRO. SOLUTIONS LAN	VEST THE SITE, TRI-STATE WORKERS
AZE TAKING WACH BETAK.	
	7.7.2
FIELD TECHNICIAN (Print Name)	signature/date



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FIELD REPORT

Job No.: =599-040	Project Name ASSETOS PIPE ABSTEMENT
Shift Start Date 6/30/99	Project Location: 19901 NORMANDIE AVE.
Contractor: TRI- STATE	Weather Condition: CLAR & BREEZY
DESCRIPTION:	
* 9:00 AM/ BNUIRD. SOLUTIONS ON-SI	THE PROJECT STATUS IS AS FOLLOWS
A THE CLEAN UP DUE TO THE CONC	25TE SPILL IS ABOUT 90/ COMPLETS.
& THE BACK-HOE IS DIGGING UP A D	IFFEREN PIPE TRANSITE ON THE BAST
SIDE OF THE PROPERTY. THESE PIPE	SECTIONS ARE BEING PLACED IN THE
OPEN BIN.	
& THE WIND IS OUT OF THE WES	THIS TIME .
WE SET UP THE ILLUAL AIR MON	ILTORING SAMPLES @ NE & NW OF PLANA.
THE TEUCK TRAFFIC IS HIGH TO	DAY, MAKING IT DIFFICULT TO COLLECT
HIGH VOLUME AIR SAMPLES.	
* 10:00 Am/ OUR VISUAL CLEARANCE SU	VEED OF THE PLANA INDICATES NO
VISIBLE PLECES OF JEBRIS IN THE	RWA. THE SOIL IS NOT TESTED FOR
SMAU FIBER CONTENT & IS NOT DE	EMED WAPPARTED FOR SUCH PROJECT.
THE BU CONTAINING TRANSITE PIPE	IS ALPEAUT TAKEN OUT & ON REMAINS.
* 11:00 Am AIR SAMPLES ARE DISM	
THE FINAL SWEEP/CLEANUP IS @	95% & DECON TREMAINS ON-SITE.
THE CREW GOES ON WHICH BAFFAR	
FIELD TECHNICIAN (Print Name)	SIGNATURE DATE

EXHIBIT III AIR SAMPLING DOCUMENTATION



AIR SAMPLE DOCUMENTATION BOEING TECHNICIAN: PROJECT NAME: CADER GROUND PIPE ABATE CLIENT: PROJECT MANAGER: PIKE HEZVAMI PLANNING • ENGINEERING • MANAGEMENT 2601 E. Chevy Chase Drive, Glendale, CA 91206 JOB NUMBER: ES77-040 CONTRACTOR IEI STATE

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OPERATION	ABATEMENT OF	2 2		TRANSITE APE	7 4	TINAL CLEAN-	SALEEP PROCESS	*
LOCATION	WORK NESS	NORTH WEST OF		ROUTH FAST OF	NORTH WEST OF	NOTE / NOTE BEAST OF	RWA NORTH NEST OF	P.W.
VOLUME	240 (t	240 K		750	420	30014	300 14	
DURATION	X0 min	Somin		140	dhi	001		
TIME ON	1504 9:40 80 min	(FO) 9:40 Somin 3 Min 11:00		1Fort 9:10.	UFOL 9:10	7:0%	3 Pmin 10:45	3 C/min 10: 45
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SAMPLE NO	10-040	20-040		040-03	040-04	040-05	70 -040	

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HI A A	LOCATION ROLTHEAST OF ZWA ZWA	Ne of Ewa	
DINS WENT 1206 PROJECT NAME: UNDERGROUN PROJECT MANAGER: TOLKE	N VOLUME	120 ut	
L SOLUTIONS NG • MANAGEMENT Endale, CA 91206 PROJ	DURATION TIME ON TIME OFF 9:10 IZ.0 4:10 IZ.0 H:10	3:15	
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